Team Controller
Northern Arizona University
Flagstaff, Arizona
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Zachary Parham (Team Lead): zjp29@nau.edu
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Team Inventory Document

Northrop Grumman

Weapon System Support Software

Harlan Mitchell

Laurel Enstrom

Overview

The purpose of this team inventory document is to briefly introduce the members of our team. The following pages briefly outline the training, skills, and relevant experience of each team member.

Name: Zachary Parham

Major: Computer Science

Hometown: Phoenix, Arizona

Education

Highschool: Mountain Ridge - Glendale, Arizona

College: Northern Arizona University - Flagstaff, Arizona

Relevant classes

1. CS 450 - Parallel Programming
2. CS 386 - Software Engineering
3. CS 480 - Operating Systems

Work Experience

- **Wells Fargo, Summer 2022**: Worked as a software developer intern in a mortgage team. Contributed to a mortgage calculator version two. Project canceled after I had left due to rising interest rates.
- **Wells Fargo, Summer 2023**: Worked as a software developer intern in the Merchant Services division to help create a system to help businesses sign up for merchant accounts and purchase point of sale (POS) equipment.

Relevant Skills

- **C/C# development**: During latest internship, I worked primarily with C#. Majority of class work has been implemented in C.
- **Database work**: Used a DBMS during both internships to write scripts for and work with databases.
- **Python Development**: Used python extensively for CS 470 - AI.

Other Interests

- I am a lifelong reader, and in normal conditions, I read about 5 books a month.
- I have built many computers in my life and hardware is what inspired me to enter computer science.

Name: Dylan Motz

Major: Computer Science

Hometown: Tucson, Arizona

Education

      Highschool: Marana High School - Tucson, Arizona

      College: Northern Arizona University - Flagstaff, Arizona

            Relevant classes

1. CS480 - Operating Systems
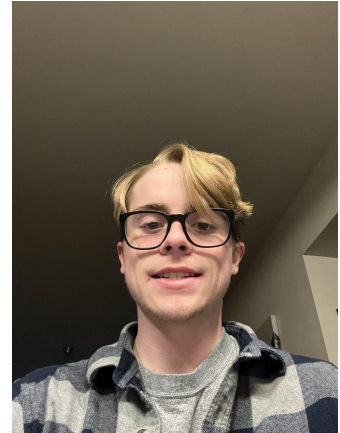2. CS386 - Software Engineering
3. CS460 - Networks

Work Experience

- **Computer Science Grader, Current**: Grading for data structures class and helping other students by giving back excellent feedback on projects.

Relevant Skills

- **C Development**: Majority of my upper classes utilize C and I am very familiar with it now.
- **Python Development**: Few of my classes have used python including my database class and AI class.

Other Interests

- I enjoy bouldering and playing soccer.
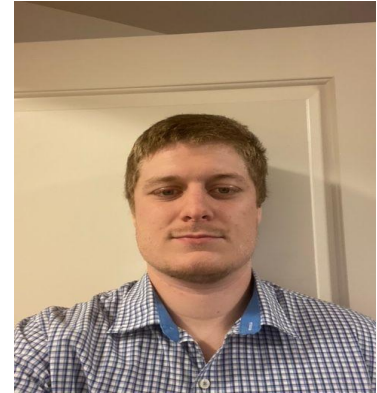- I love to play video games with friends and build computers.

Name: Brandon Udall

Major: Computer Science

Minor: Cybersecurity

Hometown: Phoenix, Arizona

Education

Highschool: Boulder Creek - Anthem, Arizona

College: Northern Arizona University - Flagstaff, Arizona

Relevant classes

1. CS 386 Software Engineering
2. CYB 410 Secure Software
3. CS 480 Operating Systems

Relevant Skills

- **C/C++ Development:** Much of my coursework has been delivered via C/C++ command line interfaces.
- **Program Security:** I have experience with cybersecurity static analysis tools such Valgrind, and Visual Code Grepper. As well as an understanding of how vulnerabilities manifest themselves in programs.
- **Database Management:** Three of my classes so far have gone in depth into the design and implementation of databases, including a semester long project for CS 386 software engineering. The CS 386 Project can be found at https://codeformatter.epizy.com/.
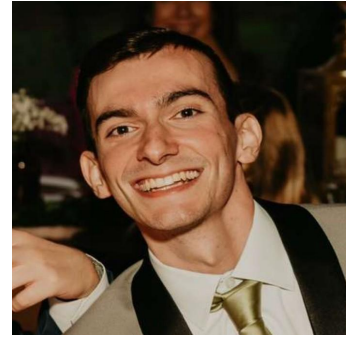
Other Interests

- I enjoy talking about philosophy and life strategy with friends.
- I enjoy creative projects such as constructing household items with wood/plastic/metal. My next creative project will be a 3D printed automatic coin wrapper/roller powered by an arduino.
- Travel is also interesting to me as it helps me gain a broader perspective of how different societies function using different cultures, ecosystems, industries and government strategies.

Name: Bradley Essegian

Major: Applied Computer Science

Hometown: Surprise, Arizona

Education

    Highschool: Shadow Ridge High School - Surprise, Arizona

    GPA: 3.6 (unweighted) / 4.6 (weighted)

    College: Northern Arizona University - Flagstaff, Arizona

        Relevant classes

1. CS480 - Operating Systems
2. CS470 - Artificial Intelligence
3. CS386 - Software Engineering

Work Experience

- **Freelance Development**: Over 7 years of experience developing small projects for individual customers: task automation bots, scripts, game plugins, websites (full-stack).

Relevant Skills

- **Python/C/C++ Development**: Both my coursework and several years of personal projects are mainly written in Python and C++.
- **Database Programs**: Extensive experience working with mySQL and mongoDB for managing both small and large scale communities for websites and game plugins.

Other Interests

- Traveling and camping are my favorite hobbies especially when that time is spent with my girlfriend, friends and family.

- I have always enjoyed playing video games and this was my first introduction to programming.

- Challenging myself with random personal coding projects that solve a specific problem I am facing.